

**SYSTEM AND METHOD FOR REDUCING DYNAMIC RANGE AND IMPROVING  
LINEARITY IN AN AMPLIFICATION SYSTEM**

**ABSTRACT**

An amplification system and method is provided that reduces peaks associated with an input signal, and provides correction, in one or more spectral bands, to signal distortion and out-of-band emissions that result from the peak reduction. The correction signal that removes signal distortion and OOB emissions associated with the peak reduction can be calculated or electronically derived. The correction signal can be combined with the peak reduced signal prior to or after amplification of the peak reduced input signal.